

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1-5. (Cancelled)

6. (Currently Amended) ~~Method~~ A method for reserving, on ~~at least one~~ a node of an Ethernet bus type communication network, a ~~predetermined~~ fraction of ~~the~~ bandwidth of ~~the~~ a digital bus during a cycle, ~~[[;]] the method~~ comprising:

~~[[;-]] circulating having~~ a token ~~circulate~~ between ~~all the~~ nodes of the network so as to enable ~~all the~~ nodes of the network to send in turn a data packet over the bus according to a ~~predefined~~ sequence defining a chronological order of passage of the token between ~~all the~~ nodes during a cycle, wherein the chronological order of passage of the token between all nodes of the network is defined by a master node of the network; and

~~[[;-]] wherein in which the~~ ~~predetermined~~ fraction of ~~the~~ bandwidth reserved for ~~a~~ the node of the network corresponds in the sequence to a certain number of occurrences of passage of the token via the node ~~concerned~~, and wherein the master node, on initialization of the network, constructs a first table, stores for each node of the network information indicative of the fraction of bandwidth reserved for each node, and on the basis of the first table, constructs a second table storing the sequence defining the order of passage of the token between the nodes of the network.

7. (Currently Amended) ~~Method~~ The method according to Claim 6, in which the occurrences of passage of the token via ~~a~~ the node of the network are distributed in the sequence among the occurrences of passage of the token via ~~the~~ other nodes of the network.

8-10. (Cancelled)

11. (Currently Amended) ~~Communication~~ A communication device designed to be connected to a digital bus communication network, the device comprising:

a connection as a master node to the network; and

a token, wherein ~~it~~ the master node is configured to ~~have a token~~ circulate the token between all ~~the~~ nodes of the network during a cycle, and ~~in that it~~ wherein the master node is organized to construct a first table storing, for each node of the network, information indicative of a fraction of the bus bandwidth reserved for ~~the~~ each node of the network and a second table storing a sequence defining a chronological order of passage of the token between all ~~the~~ nodes during a cycle, the fraction of the bandwidth reserved for ~~a~~ any one node of the network corresponding in the sequence to a certain number of occurrences of passage of the token via the one node.

12. (New) A communication device designed to be connected to a digital bus communication network, the device comprising:

a connection as a node to the digital bus communication network; and

a table received from a master node of the network storing a sequence defining a chronological order of passage of a token between all the nodes during a cycle, the fraction of the bandwidth reserved for a node of the network corresponding in the sequence to a certain number of occurrences of passage of the token via the node, wherein the node transmits the token to the next node in the sequence so that each node of the network can follow the chronological order in the sequence.